AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1   1.   (Currently Amended) A method of directing a computer network for booting

2   using an embedded operating system (OS) based computer, the method comprising:

3   listening with an embedded OS based computer to PXE requests from a plurality

4   of PXE enabled target servers of a computer network; and

5   providing from the embedded OS based computer to one of the plurality of PXE

6   enabled target servers a netboot program and address information of a boot server ~~from~~

7   ~~the embedded OS based computer~~ responsive to a PXE request from the one of the PXE

8   enabled target servers.

1   2.   (Original) The method as in claim 1, wherein the computer network comprises a

2   plurality of subnetworks of PXE enabled target servers.

1   3.   (Previously Presented) The method as in claim 2, wherein the embedded OS

2   based computer listens to one of the subnetworks.

1   4.   (Previously Presented) The method as in claim 3, wherein the embedded OS

2   based computer listens to one of the subnetworks by wireless communication.

1   5.   (Original) The method as in claim 1, wherein the embedded OS is Windows CE

2   operating system.

1   6.   (Original) The method as in claim 1, wherein the plurality of PXE enabled target

2   servers are part of a subnetwork of the computer network.

1   7.   (Original) The method as in claim 1, wherein the listening step is performed

2   through a TCP/IP stack.

1   8.   (Original) The method as in claim 1, wherein the address information of the boot

2   server comprises an IP address.

1   9.   (Previously Presented) The method as in claim 1, further comprising transferring

2   a boot image from the boot server responsive to the netboot program executing on the one of the

3   PXE enabled target servers.

1   10.   (Original) The method as in claim 9, wherein the boot image is provided through

2   a router.

1   11.   (Original) The method as in claim 9, wherein the boot image is provided by

2   wireless communication.

1   12.   (Original) The method as in claim 9, wherein the boot image comprises responses

2   to preboot execution environment queries.

1   13.   (Original) The method as in claim 9, wherein the boot image further comprises a

2   script specific to the requesting target server.

1   14.   (Original) The method as in claim 9, wherein the boot image comprises code to

2   install at least one operating system.

1   15.   (Original) The method as in claim 9, wherein the boot image comprises

2   application software.

1   16.   (Original) The method as in claim 9, wherein the netboot program is executed out

2   of a read-only memory.

1   17.   (Original) The method as in claim 9, wherein the boot image is transferred using

2   a trivial file transfer protocol.

1   18.   (Previously Presented) The method as in claim 9, wherein the one of the PXE

2   enabled target servers is booted by executing the boot image.

1   19.   (Previously Presented) The method as in claim 1, further comprising displaying

2   address information for the plurality of PXE enabled target servers.

1   20.   (Previously Presented) The method as in claim 1, further comprising displaying a

2   plurality of boot images for the plurality of PXE enabled target servers.

1   21.   (Previously Presented) The method as in claim 1, further comprising displaying

2   PXE requests for the plurality of PXE enabled target servers.

1   22.   (Previously Presented) An embedded OS based computer for network booting

2   under preboot execution environment (PXE) control, the computer comprising:

3   a network interface controller (NIC);

4   an embedded operating system (OS) to control the NIC;

5   a processor coupled to the NIC;

6   a processor executable PXE routing software, which is adapted to perform the

7   processor executable steps of:

8   listening to PXE requests from a plurality of PXE enabled target servers of

9   a computer network; and

10   providing to one of the plurality of PXE enabled target servers a netboot

11   program and address information of a boot server separate from the embedded OS

12   based computer, in response to a PXE request from the one of the PXE enabled

13   target servers.

1   23.   (Original) The embedded OS based computer as in claim 22, further comprising a

2   display coupled to the processor.

1   24.   (Original) The embedded OS based computer as in claim 22, further comprising

2   an input device coupled to the processor.

1   25.   (Original) The embedded OS based computer as in claim 22, further comprising a

2   memory coupled to the processor.

1   26.   (Currently Amended) The embedded OS based computer as in claim 25, wherein

2   the memory further comprises:

3   a web browser;

4   PXE service applications;

5   a TFTP application;

6   a Net Boot Program (NBP) the netboot program; and

7   a boot image.

1   27.   (Currently Amended) The embedded OS based computer as in claim [[25]] 26,

2   wherein the embedded OS based computer is configured through the web browser.

1   28.   (Original) The embedded OS based computer as in claim 25, wherein the

2   embedded OS based computer is configured directly.

1   29. – 38. (Cancelled)

1   39.   (Previously Presented) The method of claim 1, wherein providing the netboot

2   program from the embedded OS based computer comprises providing the netboot program from

3   the embedded OS based computer that is separate from the boot server.

1   40.   (Previously Presented) The method of claim 39, wherein providing the netboot

2   program to the one of the PXE enabled target servers comprises providing the netboot program

3   that when executed causes the one of the PXE enabled target servers to issue a request to the

4   boot server for a boot image to download to the one of the PXE enabled target servers.

1   41.   (Previously Presented) The method of claim 40, further comprising:

2   receiving, by the embedded OS based computer, the request to the boot server;

3   and

4   in response to the request, send, by the embedded OS based computer, a Trivial

5   File Transfer Protocol (TFTP) request to the boot server for the boot image.

1   42.   (Previously Presented) The embedded OS based computer of claim 22, wherein

2   the netboot program when executed causes the one of the PXE enabled target servers to issue a

3   request to the boot server for a boot image.

1   43.   (Previously Presented) The embedded OS based computer of claim 42, wherein

2   the boot image comprises a script that includes code to install an operating system on the one of

3   the PXE enabled target servers.

1   44.   (Previously Presented) The embedded OS based computer of claim 22,

2   comprising a handheld computer.

1   45.   (Previously Presented) The embedded OS based computer of claim 22, wherein

2   the embedded OS comprises a Windows CE OS.

1   46.   (Previously Presented) The embedded OS based computer of claim 22, further

2   comprising a display to display address information for the plurality of PXE enabled target

3   servers.

1   47.   (Previously Presented) An article comprising a storage containing software that

2   when executed causes a first computer to:

3   receive a request from a target server for remote booting of the target server; and

4   in response to the request, send a program and address information of a boot

5   server to the target server, wherein the boot server is separate from the first computer,

6   wherein the program when executed causes the target server to issue a boot server

7   request to the boot server for a boot image to download to the target server.

1   48.   (Previously Presented) The article of claim 47, wherein the software when

2   executed causes the first computer to further:

3   receive the boot server request; and

4   in response to the boot server request, issue a Trivial File Transfer Protocol

5   (TFTP) request to the boot server for the boot image.

1   49.   (Previously Presented) The article of claim 47, wherein the first computer

2   comprises an embedded operating system (OS) based computer containing an embedded OS.

1   50.   (Previously Presented) The article of claim 49, wherein the first computer

2   comprises a handheld computer.

1   51.   (Previously Presented) The article of claim 47, wherein the first computer

2   receives the request from the target server by wireless communications.

1   52.   (Previously Presented) The article of claim 47, wherein the received request from

2   the target server comprises a preboot execution environment (PXE) request, the target server

3   being a PXE enabled target server.

1   53.   (Previously Presented) A computer comprising:

2   a processor;

3   an embedded operating system (OS) executable on the processor;

4   software executable on the processor to:

5   receive a request from a target server; and

6   in response to the request, send information to the target server to direct

7   the target server to a boot server separate from the computer for downloading a

8   boot image from the boot server to the target server for remote booting of the

9   target server,

10   wherein the computer is a reduced-capability computer having less

11   capability than a server computer.

1   54.   (Previously Presented) The computer of claim 53, wherein the embedded OS

2   comprises a Windows CE OS.

1   55.   (Previously Presented) The computer of claim 53, further comprising a wireless

2   interface to receive the request wirelessly.

1   56.   (Previously Presented) The computer of claim 53, wherein the received request

2   comprises a preboot execution environment (PXE) request.

1   57.   (Previously Presented) The computer of claim 53, further comprising a display to

2   display address information for plural target servers, and to list boot images for the plural target

3   servers,

4   the software executable on the processor to:

5   listen to requests from the plural target servers for remote booting of the

6   target servers.

1   58.   (Previously Presented) The computer of claim 53, wherein the information sent

2   to the target server comprises a netboot program and an address of the boot server.